

A4J:10.XXB2U

VOLTAGE RATINGS

Part Number	V _{RRM} , V _R (V) rep. peak reverse	Max. voltage	V _{RSM} , V _R (V) Max. non- rep. peak reverse voltage	
	$T_{J} = 0 \text{ to } 150^{\circ}$	$T_J = -40 \text{ to } 0^{\circ}\text{C}$	$T_{\rm J}$ = 25 to 150 $^{\circ}$ C	
A4J:10.02B2U	200	200	300	
A4J:10.04B2U	400	400	500	
A4J:10.06B2U	600	600	700	
A4J:10.08B2U	800	800	900	
A4J:10.10B2U	1000	1000	1100	
A4J:10.12B2U	1200	1200	1300	

All ratings and characteristics correspond to each one of the junctions in the bridge

MAXIMUM ALLOWABLE RATINGS

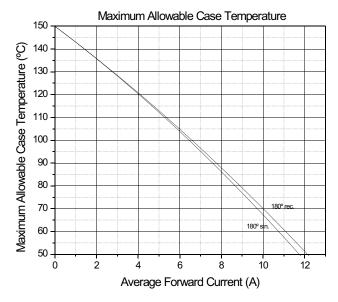
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PARAMETER		VALUE	UNITS	NOTES	
T _J Junction Temperature		-55 to 150	°C		-
T _{stg} Storage Temperature		-55 to 150	°C		-
I _{F(AV)}	Max. Av. current	10	Α	180 half sine wave	
	@ Max. T _C	65	°C	100 Hall Sille Wave	
		125		50 Hz half cycle sine wave	Initial T _J = 150°C, rated VRRM
I _{FSM} Max. Peak non-rep. surge current	130	А	60 Hz half cycle sine wave	applied after surge.	
	115		50 Hz half cycle sine wave	Initial T_J = 150°C, no voltage applied after surge.	
		119			60 Hz half cycle sine wave
l ² t Max. i ² t capability		110		t = 10ms	Initial $T_J = 150^{\circ}C$, rated VRRM applied after surge.
		100	A ² s	t = 8.3 ms	
		78		t = 10ms	Initial T _J = 150°C, no voltage
		71		t = 8.3 ms	applied after surge.
I ² t ^{1/2} Max. I ² t ^{1/2} capability			Initial T _J = 150℃, no voltage applied after surge.		
it iviax. It capability		1105	$A^2s^{1/2}$	for time $tx = l^2t^{1/2} * tx^{1/2}$. (0.1 < tx < 10ms).	
Mounting force		2.0	N.m		-



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CHARACTERISTICS

PARAMETER	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
V _{FM} Peak forward voltage			1.30	V	Initial T _J = 25℃, sinusoidal wave, J _{eak} =15.7A.
V _{F(TO)} Threshold voltage			0.85	V	TJ = 150°C
r _F Slope resistance			7.00	m	Use low values for $\not\models_{M} < \mid_{F(AV)}$
I _{RM} Peak reverse current			100	mA	TJ = 150 ℃. Max. Rated V _{RRM}
R _{thJC} Thermal resistance, junction-to-case			3.50	%C/W	DC operation
wt Weight		7(0.25)		g(oz.)	



Maximum Allowable Case Temperature

Solution 10 180° rec.

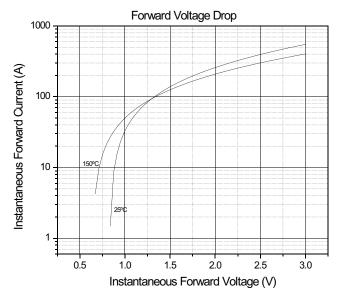
180° rec.

180° rec.

Average Forward Current (A)

Fig. 1 - Current Ratings Characteristics

Fig. 2 - On-State Power Loss Characteristics





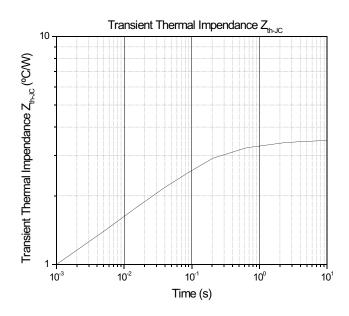


Fig. 4 - Transient Thermal Impedance Characteristics



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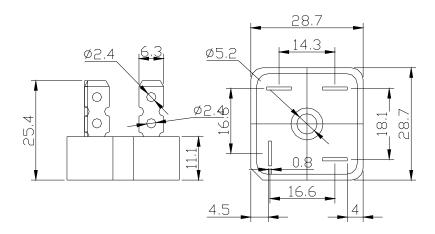


Fig. 5 - Outline Characteristics